

[LB212]

OCTOBER 2012

Sub. Code: 222219

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**APPLIED BASIC SCIENCES IN ORTHOPAEDIC SURGERY**

**Q.P. Code : 222219**

**Time : 3 hours**

**Maximum : 100 marks**

**(180 Min)**

**Answer ALL questions in the same order.**

**Write notes on**

<b>Pages</b>	<b>Time</b>	<b>Marks</b>
<b>(Max.)</b>	<b>(Max.)</b>	<b>(Max.)</b>

**I. Anatomy**

- |   |   |   |   |
|---|---|---|---|
| 1. Blood supply of femoral head in adults       | 3 | 9 | 5 |
| 2. Petit's triangle and its importance          | 3 | 9 | 5 |
| 3. Typical lumbar vertebra and its significance | 3 | 9 | 5 |
| 4. Ligament of Bigelow and its importance       | 3 | 9 | 5 |

**II. Physiology**

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|-----------------------------------|---|---|---|
| 1. Regulation of Calcitonin       | 3 | 9 | 5 |
| 2. Physiology of Shock            | 3 | 9 | 5 |
| 3. Complex regional pain syndrome | 3 | 9 | 5 |
| 4. Physiology of Osteoporosis     | 3 | 9 | 5 |

**III. Biochemistry**

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|---|---|---|---|
| 1. Factor VIII and its significance             | 3 | 9 | 5 |
| 2. BMP  | 3 | 9 | 5 |
| 3. Bio chemical aspects of Renal Osteodystrophy | 3 | 9 | 5 |

**IV. Pathology**

1. Pathogenesis of Chronic osteomyelitis	3	9	5
2. Pathology of Septic arthritis	3	9	5
3. Myositis ossificans and its importance	3	9	5

**V. Microbiology**

1. Laboratory Diagnosis of Gas gangrene	3	9	5
2. Applications of BACTEC System	3	9	5
3. Segregation of hospital waste	3	9	5

**VI. Pharmacology**

1. Bisphosphonates - action and uses	3	9	5
2. Baclofen - action and adverse reactions	3	9	5
3. Indomethacin - action and applications	3	9	5

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